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## PRODUCTS

## QINETIX™ QUICK RECOVERY FAQ

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QiNetix™ Quick Recovery software significantly raises availability of business critical applications by leveraging snapshot technology to create point-in-time Recovery Volumes on magnetic disk. This allows administrators to fully recover applications in minutes. Plus, Quick Recovery software offers you a simple interface that easily creates, tracks, administers and manages point-in-time snapshots of production data for testing, recovery or business continuance reasons.

Also use our Quick Recovery software to reduce administration of remote data environments. Its block level incremental data movement over IP connections eliminate the need for local backup. Local backups and their headaches, cost and administrative challenges are gone. With data safe at a datacenter, administrators can get rid of offsite tape storage for disaster recovery purposes. Users can access QR data remotely via a file share in the event of catastrophe. As a result, TCO for remote data can be significantly lowered with Quick Recovery.

Integration with the CommVault® Galaxy™ backup and recovery solution provides you with a single view of snapshots, Quick Recovery Volumes and backup copies. So, you can manage all point-in-time copies as a unified whole.

### 1. What is Quick Recovery?

Quick Recovery is a software solution designed to address two customer needs. First, the recovery of critical applications in minutes from data corruption or disk failure. Second, the ability to utilize block level data movement over IP to reduce the cost of managing distributed data environments with many remote sites.

### 2. Does Quick Recovery replace Backup/Recovery?

They work together. Quick Recovery is designed to augment your traditional backup operations with more frequent "ready-to-restore" native format images of your application data so there's a much smaller vulnerability window. More importantly, Quick Recovery provides much faster application recovery than the traditional restore operation.

What are the benefits of the Quick Recovery and Galaxy backup and recovery integration? For Windows, Unix (Solaris), Oracle, Exchange 2000 and SQL 2000 customers, QR Volumes and conventional CommVault Galaxy backup data can be viewed as of a specific point-in-time. The user can elect to recover the application or file system data without knowing different data formats or where and how copies of protected application data are stored.

### 3. How do you use Quick Recovery?

Quick Recovery significantly raises availability of business critical applications by leveraging and managing snapshot technology to create point-in-time recovery volumes on any magnetic disk (we call them QR Volumes), allowing administrators to fully recover applications in minutes. In addition, its block level data movement is ideal to protect remote data sites.

### 4. How are snapshot restorations generally done (without Quick Recovery)?

Snapshot-based restoration is generally volume-centric and comprised of numerous manual steps that Quick Recovery helps automate. To perform a snapshot, the user has to identify which LUN is mapped to the specific volume, run the command or write scripts to snap the storage volume, find out which application is using that specific volume and schedule a job to quiesce that application data when the snapshot happens.

### 5. How does Quick Recovery integrate with my hardware snaps?

Quick Recovery protects your investment by integrating with existing storage-based snapshots from industry-leading snapshot vendors, such as EMC, HP and Hitachi Data Systems. Quick Recovery provides extremely quick recovery and is very easy to use and manage. In addition, it automates snap management to alleviate the clipboards and spreadsheets normally used to keep track of volumes and data.

### 6. Is Quick Recovery easy to deploy?

Yes. To ensure the consistency of application data and improve ease of use, Quick Recovery uses built-in intelligence to automatically discover and correlate physical storage devices with application objects and synchronize application input/output with Quick Recovery operations.

### 7. Can applications be recovered quickly with Quick Recovery?

Yes. Users can browse these application-smart QR Volumes and recover application data automatically with one simple click of a mouse.

### 8. Can Quick Recovery help lower Total Cost of Ownership (TCO)?

Yes. Quick Recovery lowers TCO by saving time and improving performance — the QR Volume is incrementally updated by moving only the changed blocks from the source volume since the last update. Quick Recovery automates snap management, saving administrators time and with Policy Management, Quick Recovery lets you centrally manage and automate data management tasks.

**9. How does Quick Recovery help administrators save time?**

With Quick Recovery, administrators save time through automation of once-manual tasks. The user does not have to customize a script, find out which commands to run, find out which snapshot volume to recover from or how to mount the volume. It only takes one simple mouse click to recover the application to the desired point-in-time within a couple of minutes.

**10. Will Quick Recovery integrate with my Disaster Recovery (DR) Plan?**

In many cases, Quick Recovery can assist with your DR plan. Quick Recovery can create application data recovery-ready QR Volumes and transmit across a TCP/IP network to storage volumes located at remote DR sites. And, Quick Recovery provides the recovery capabilities without requiring snapshot-capable storage at the remote site.

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*"Managing e-mail or file system data?  
The story's always the same. I can  
improve performance or reduce costs.  
Why can't someone come up with a  
solution that does both?"*

## QiNetix DataMigrator. Does it all.

Managing e-mail and file system data with increased performance and reduced cost shouldn't be an "either/or" situation. That's why we developed QiNetix™ DataMigrator™ for robust data management and migration.

QiNetix DataMigrator software provides unmatched data management and availability. It migrates Exchange messages (and attachments) or Windows File System data to less expensive secondary storage while retaining transparent user access through Outlook or a centralized browser interface to the migrated data. By shrinking the size of the Microsoft Exchange Information Store or Windows File System, DataMigrator software reduces backup windows, reduces primary disk storage, eases IT administrative burden and improves your Microsoft Exchange Server and Windows File System performance.

So, more data is available to more users and all data is managed.

### CommVault Systems

In 1996, CommVault Systems evolved from an AT&T Bell Labs spin-off division to innovate backup and restore capabilities. In early 2000, the company launched its flagship data protection product, CommVault® Galaxy™ – and since then has forged numerous alliances with top software application and hardware vendors such as Dell, EMC, HP, Hitachi Data Systems, IBM and Microsoft to enhance capabilities and to create the premiere suite of storage management solutions. To date, Galaxy is installed at many Global 2000 enterprises. Today, CommVault Systems, Inc., is a privately held, independent company ranked by IDC as a leader in enterprise data and storage management software.

Our singular focus is creating and implementing comprehensive, fast, reliable and easy-to-use data and storage management solutions to meet customers' dynamic data management requirements. To find out how CommVault software can be tailored to your enterprise data requirements, call or e-mail us today. Or visit [www.commvault.com](http://www.commvault.com).

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## QiNetix™ DataMigrator™

Data  
Migration

QiNETIX

# Choose QiNetix DataMigrator for unmatched data management and migration.

## Easy E-mail and File System Data Management and Administration

Through DataMigrator's centralized browser interface, your IT administrators more easily meet operational requirements. DataMigrator leverages CommVault's common technology policy engine to provide flexible and robust retention schemes. Based on pre-determined criteria, DataMigrator automatically migrates messages or file system data and lets users recall the information when they need it.



Migrated data appears in their Outlook, directory or our centralized browser interfaces with a special icon alerting users that the message, attachment or file has been migrated. Recalling migrated data is easy; users simply highlight the message or file and it's automatically recalled from storage. Or, administrators can use the QiNetix DataMigrator browser interface to search attributes before recalling.

Administrators can meet corporate guidelines by easily recalling migrated files or messages. The entire file or message — including all properties and attachments — is recalled, as it was when it was migrated.

## Efficient Storage Utilization

DataMigrator lets you use existing storage more intelligently. It migrates Windows files or Exchange

messages and attachments to less expensive secondary storage. By shrinking the size of your primary storage, DataMigrator software reduces backup windows, eliminates overcapacity, eases IT administrative burden and improves system performance — all reducing your Total Cost of Ownership.

To ward off a storage capacity crisis — users hitting disk quota limits or e-mail servers running out of disk space — DataMigrator lets you automatically manage disk or mailbox quotas. With DataMigrator, "Quota Interruptions" are less frequent. Migrations can be automatically scheduled before thresholds are met, seamlessly extending the capacity of an individual user's disk volume or mailbox.

## Seamless Integration with CommVault Galaxy

QiNetix DataMigrator integrates tightly with CommVault® Galaxy™ backup and recovery software for simplified and unified management of all copies of Microsoft Exchange or Windows File System data, as well as allowing dynamically shared storage resources between migration and backup.

## Add Services for Total Data Migration Solution

You can count on the professional services and support of CommVault Systems. In fact, we pride ourselves on delivering the most trusted, responsive and context-sensitive customer service in the industry. Our data and storage management experts assist you from start to finish — planning, implementation, deployment, training, technical support — allowing you to realize the full value of your investment.

## DataMigrator — a QiNetix Software Solution

Built on the proven CommVault Common Technology Engine, CommVault® QiNetix™ is the first unified enterprise data management solution that ensures high performance protection, universal availability and simplified management of complex storage networks.

The result? Dynamic data management that makes storage easy to manage.



The interaction and integration of QiNetix platform components deliver unparalleled business and operational advantages. Like, superior ROI. Better use of storage resources. Increased staff productivity. Maximum data availability. And, reduced Total Cost of Ownership.

Learn more about **DataMigrator** and the benefits of dynamic data management.

Call today: 732 870-4000  
E-mail: [info@commvault.com](mailto:info@commvault.com)  
Or visit us at: [www.commvault.com](http://www.commvault.com)

**QiNETIX**  
CommVault

\*Migration will be extended to other applications and to file systems in the next releases of the software.



*"If then applications go down, I need  
my systems — and my people — up  
and running again in minutes.  
Not hours!"*

## You're not alone with QINetix Quick Recovery.

### The name says it all.

These days, your business can afford downtime. That's why we developed QINetix® Quick Recovery, unmatched data management and availability for today's data-driven enterprises.

The QINetix Quick Recovery solution significantly raises availability of business critical applications by leveraging and managing snapshot technology to create point-in-time Recovery Volumes on magnetic disks. This allows administrators to fully recover applications in minutes. By implementing Quick Recovery, you can fine-tune your "up-time" strategy by protecting your valuable application data from corruption, user errors or virus hits.

Quick Recovery software is application-smart — it discovers all volumes associated with the application, protecting entire applications or just a critical data set. You'll recover applications in minutes, not hours. Or, experienced administrators can choose individual volumes for rapid restore.

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Our singular focus is creating and implementing comprehensive, fast, reliable and easy-to-use data and storage management solutions to meet customers' dynamic data management requirements. To find out how CommVault software can be tailored to your enterprise data requirements, call or e-mail us today. Or visit [www.commvault.com](http://www.commvault.com).

## CommVault Systems®

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## QINetix™ Quick Recovery

Data  
High  
Availability

QINETIX

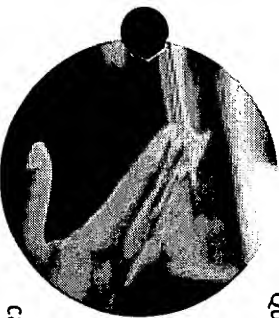
# Choose QiNetix Quick Recovery for unmatched data management and availability.

## Easy Management and Administration

QiNetix Quick Recovery offers a simple, unified interface that easily creates, tracks, administers and manages point-in-time snapshots of production data for testing, recovery or business continuance reasons. Via centralized policy management and scheduling, administrators can define Recovery Volume retention periods and automatically recover data when it is needed.

## Automated Snapshot Management

The QiNetix Quick Recovery solution makes snapshot management and data recovery easier and more effective. Today, too many administrators rely on manual records citing which data resides on which volumes. An inefficient method at best.



Quick Recovery, on the other hand, fully automates snapshot management. When data is snapped, Quick Recovery keeps track of changed data and stores it on the Recovery Volume. It catalogs the snapshot and

tracks the snapshot with details such as current mount point, last mount point, time of snap and size of volume. With this cataloging, administrators can view the list and select a snap (in file format) to see exactly what data is in it. This removes a tedious administrative process. So, you'll save costs and maximize data recovery time.

## Seamless Integration with Industry-Leading Technology

### UNIX and Windows 2000 File Systems

Snap millions of files or entire complex directory structures in minutes compared to hours for backup. Restore entire volumes in minutes, as well. Never worry about open files, ever again.

### Exchange 2000 Server & SQL Server 2000

Make backup windows disappear. Fully integrated with Exchange services and SQL databases. Trade minimal disruption of end users for elimination of backup windows and reducing full recovery of applications to minutes.

### Oracle 8/9 databases

Make backup windows disappear. Off load backup from production host via seamless use of snap technology. Recover Oracle database in minutes.

### CommVault Galaxy

Tight integration with the CommVault® Galaxy™ backup and recovery solution provides a single view of snapshots. Quick Recovery Volumes and backup copies, letting administrators manage all point-in-time copies as a unified whole.

## Add Services for a Total Data Availability Solution

You can count on the professional services and support of CommVault Systems. In fact, we pride ourselves on delivering the most trusted, responsive and context-sensitive customer service in the industry. Our data and storage management experts assist you from

start to finish – planning, implementation, deployment, training, technical support – allowing you to realize the full value of your investment.



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